

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/037152

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/395 C12N5/20 A61P33/06 A61P35/02  
//C07K16/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, Sequence Search, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/28904 A (CHIRON CORPORATION; CHU, KETING; WANG, CHANGYU; YOSHIHARA, CORRINE; DO) 11 April 2002 (2002-04-11) pages 1,9 page 30	1-54
X	WO 01/83755 A (GEMINI SCIENCE, INC; MIKAYAMA, TOSHIFUMI; TAKAHASHI, NOBUAKI; CHEN, XI) 8 November 2001 (2001-11-08) page 2 - page 3 page 10 - page 13; figure 1	1-54
X	WO 02/088186 A (KIRIN BEER KABUSHIKI KAISHA; MIKAYAMA, TOSHIFUMI; YOSHIDA, HITOSHI; FO) 7 November 2002 (2002-11-07) example 14 -/--	1-54

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

27 April 2005

Date of mailing of the international search report

20/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Wagner, R

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/037152

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	-& EP 1 391 464 A (KIRIN BEER KABUSHIKI KAISHA) 25 February 2004 (2004-02-25) example 14 -----	1-54
A	ELLMARK PETER ET AL: "Modulation of the CD40-CD40 ligand interaction using human anti-CD40 single-chain antibody fragments obtained from the n-CoDeR phage display library" IMMUNOLOGY, vol. 106, no. 4, August 2002 (2002-08), pages 456-463, XP002326342 ISSN: 0019-2805 figures 1,3 -----	1-54
A	HAGER A -C MALMBORG ET AL: "Affinity and epitope profiling of mouse anti-CD40 monoclonal antibodies." SCANDINAVIAN JOURNAL OF IMMUNOLOGY, vol. 57, no. 6, June 2003 (2003-06), pages 517-524, XP002326343 ISSN: 0300-9475 the whole document -----	1-11, 33-40

# INTERNATIONAL SEARCH REPORT

national application No.  
PCT/US2004/037152

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 12-31, 41-44 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US2004/037152

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0228904	A	11-04-2002	AU 1136602 A	15-04-2002
			AU 9650701 A	15-04-2002
			AU 9654501 A	15-04-2002
			AU 9654701 A	15-04-2002
			CA 2424296 A1	11-04-2002
			CA 2424749 A1	11-04-2002
			EP 1322383 A2	02-07-2003
			EP 1326896 A2	16-07-2003
			JP 2004510752 T	08-04-2004
			JP 2004517611 T	17-06-2004
			WO 0228904 A2	11-04-2002
			WO 0228905 A2	11-04-2002
			WO 0228480 A2	11-04-2002
			WO 0228481 A2	11-04-2002
WO 0183755	A	08-11-2001	AU 5921501 A	12-11-2001
			WO 0183755 A2	08-11-2001
			US 2003059427 A1	27-03-2003
			US 2002142358 A1	03-10-2002
WO 02088186	A	07-11-2002	US 2003059427 A1	27-03-2003
			CA 2445349 A1	07-11-2002
			CN 1522264 A	18-08-2004
			EP 1391464 A1	25-02-2004
			WO 02088186 A1	07-11-2002
			US 2004120948 A1	24-06-2004
			AU 5921501 A	12-11-2001
EP 1391464	A	25-02-2004	US 2003059427 A1	27-03-2003
			US 2002142358 A1	03-10-2002
			CA 2445349 A1	07-11-2002
			EP 1391464 A1	25-02-2004
			US 2004120948 A1	24-06-2004
			CN 1522264 A	18-08-2004
			WO 02088186 A1	07-11-2002
			AU 5921501 A	12-11-2001